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J.A. Forberg tim Book # 42

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No. 42	
(Jan. 29, 1956 - Feb. 24, 1956)	
(36627 3673B)	
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Remarks

No. 56660 Coll. F. R. Fosberg Alt. 1-4 m. Date Feb. 6, 1956

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Remarks

No. 36660 Coll. F. R. Fosberg Date Feb. 8, 1956 Alt. 1-4 m near high tide level on lagoon shore.

Occurrence on eroded coral conglemerate

egality to dasm Locality Rongelap Islet, 5/4 miles

STAINED. HONGELAP ATOLL PLANTS OF THE MARSHALL ISLANDS

M. Alleran

MALLOREY Commercial OFFICE SUPPLY Stationers WASHINGTON I. D. C.

PLANTS OF THE MARSHALL ISLANDS RONGELAP ATOLL

Locality Rongelap Islet, 3/4 mile west of village

Occurrence On eroded coral conglomerate near high tide level on lagoon shore.

Date Feb. 8, 1956 Alt. 1-4 m Coll. F. R. Fosberg No. 36660

Remarks

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PLANTS OF THE MARSHALL ISLANDS RONGELAP ATOLL

Locality Rongelap Islet, 3/4 mile west of village

Occurrence On eroded coral conglomerate near high tide level on lagoon shore.

Date Feb. 8, 1956 Alt. 1-4 m. Coll. F. R. Fosberg No. 36660

Remarks

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PLANTS OF THE MARSHALL ISLANDS RONGELAP ATOLL

Locality Rongelap Islet, 3/4 mile west of village

Occurrence On eroded coral conglomerate near high tide level on lagoon shore.

Date Feb. 8, 1956 Alt. 1-4 m Coll. F. R. Fosberg No. 36660

Remarks

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PLANTS OF THE MARSHALL ISLANDS RONGELAP ATOLL

Calymperes

Locality Gegen Islet

Occurrence Common on branches of trees

Date Feb. 15, 1956 Alt. 1-4 m Coll. F. R. Fosberg No. 36733

Remarks

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PLANTS OF THE MARSHALL ISLANDS RONGELAP ATOLL

Calymperes

Locality Gegen Islet

Occurrence Common on branches of trees

Date Feb. 15, 1956 Alt. 1-4 m Coll. F. R. Fosberg No. 36733

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Pacific Vegetation Project

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Date Feb. 15, 1956 Alt. 1-4 m Coll. F. R. Fosberg No. 36733

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Jan. 27 - Flight from Washington to Truling to fan francisco. In deciderous frest country a light snow fall brings out some differences That are much less obvious without it. Open grass and cultivated land stands out strangly in white. Hecidowi woods of varying dessities show as grays of varying densities the showing relief, as a pattern, and patches of evergreen frest are very dank giter. In generally cultivated country large patche of gray may represent helly or dissected tand, Conspicuous examples 17-15 minutes (40 mint?) east of Trilsa around an extensive winding and branched nescorn much more woodel land to south of route. Winding dark strips in snow represent ravines and gallery frest along streams. Dredge (gold?) working east of Tulsa.

1954 Kawaiian In Oahn fan. 30, 1956 - Honotulu Cultivated on University campine. 76617 Preuderanthemun carnetherii shub, 6 m, tell, leaves variegated green, gray, and death Lat. even; flower with white corolla with man of bused purple date in throat, upper two loves event. partly united, lateral ne horizontal, lower pointing downward. 79 Counterenthemum carruthersii should to mital; leaves green, gray, cream; fire ra, atropurqueum deep magenty with white markings, while Two lobes event, grantly united lateral ones brigantal, love me printing donnward,

Marshall I. Kwajalein 1756 teb. 2 - Kwajalin Islet Leedlings of Phytlanthen and Expliciting Theymistely Hard rain for almost very abundant in base an hom 712 - 8:15 a.m. coal sandagravel. ants, very small seen in line climbing coronat with. golden plones common, What seem to be same office very tame. I my tattles collected on reprigerator in seen near outer beach. quest house, attracted by liquen (crows de Menths) left in What appeared to be a glasses on top. large wild duck seen Crinum assisterin is at so sire and of islet used generally as anometal in weedy ground. It was Suphorbia they mifolia bornish, with dark forms a conspicuous ground patcher in wings. The Casuarina commonly nech was long and when on alert held very planted as mamental, erect (like a crase's). The seems to have come up head and throat with stront aneously occasionally a large dark patch on Cypeus compressus stell early side. I lew off greenests near terminal, but menang also Helistropium valiful over sea and wireled around to land again on Inday, Phyllanthus, Videns other side of air-strip. Englishing thymisolia are very In frigate birls seen. abundant generally, stackly Celso a floth of modelies tarpheta indica, also. Plushea after fish in distance. indies has become frainly no mynahr seen get. general, I odnata lias "Brown widow" spides decreased but is still occasional. still very common around milia javanica is common. Eclipta alba and Congga buildings, in lorker, etc. acc. medical officer Colo, White who bonariensis seen once eachbrought a specimen. The Cenchine echinatus comma but not abundant. bites recently.

Librief atoll 1956 marshall 95. Feb. 4 - Ribiel I slet for In gardens and around 36679 Brugainvilles glaba days. scandent shrub with axillary spines; bracks dull orange- red. 30 Casuaring equivetifolist. The about 8 m. Tall: said to have been planted 31 Dougainvilles glabra thing scandest shoul with waillary spines, bracks crimen majorly 37 Cycas circinalist. tree i'm. tall; said to have been brought from armo. 3 trees seen. "lawkuk" large tree, fruit said 33 artocarpus altilis (Parts. 170st. to be seedy. yelanted 34 Digitaria prurious von microbailme (Prut) Fish common among trees 35 artocarpus altilis (Parke.) Fosts. large tree; fruit said to be seedy. planted large clump of 30 Renesena glanca (L.) Buth strubby steme 4 m. tall. planted should 15 m. tall; leaves 37 acalypha amentaces vas. wilkeriang (M. A.) Foll. reddish but very chlorotic. planted as hedge old tree 5 m. tall wide-38 Delonia regia (Boja) Raf. spreading sterile, planted' almost leaflers. tree seem in flower. Dananas and prapayas Two l'ritchardis pacifics commonly planted The tyees, quite tall (5 m), in flower. from a gas fruiting freely-Clump of Russelia smich neither especially chloratic. chestotic, servering freely. One Engthing variegates

10 1956 marshall 95.

photos in Photo Lab on Kwajalein. (by stolls)

ailinginal obliques 9-12-95 Knox D. densely wooded. Islets from Bohorywen south extensively developed erosion rampe in seaward side, a little sand on lagon side Bokongunen is a long strip of platform and evosing ramp with a timy letacked sand islet toward lagoon. Kurbuen I. eastern portion worded except for s. s. corner, prolongation to west has been stripped clean much as a utirile with a now of a mall dunes and bushes along lagion shore. Ribinouri 1. - wooded, possibly a very few comunts. Enwetahlan 9. (1) scattered trees in grassy reland. (Perhaps is actually islet east of Crimetalshin) Enibula) . - largely planted to corrects! Mogini. - wooded.

Phyllanthus nivosus Delmix regin Catharanthus roseus Coffee anabica Crimum asiation 1 Khoes dicolor spathaces artorapus actilis Plumeig ruba Pluming up. Coess mucipus arecord palm? 2 mident, shrubs anthurium common red) and no with large scalloped los. Marleria cintata (white) Calophyllum inophyllum temphis acidula Hamigraphis repens Thounds citrifolis Guettanka specison Engthring indica: Pandanus Tectrius bansevieria (broad, mettled) Myshyllum pernatum Suphobia heterophylla Hibiron sony retalus Voter tribotis formers tere inthistims tolers scritellain Colyssins futicosa (olyscias sp. (complet) Kuellia longifolia labelouia pentalphyla

Pedilanthus Tithymalords Hobisens tiliacens Clerodendrum inerme Murraya preniculata asparagus sprengeri sill Canavally of.? Theretia peruviana Emphorbia Clarge, shatalate Clesly los, shing, shire sten ardisis ? leathery leaves. depressed globou black flooling friend about 1 cm, + long. Cleystaria gangetica forfile almandor Cryptostegia grandiflore and Kigelia or Mathodea Merremy tuberoza licalypha hispida perium oleander Russelia equisetiformis Defly Friboles anthrown Osterneles anthyllidifolis l'ersea americana Oshrosia oppositifolia? town casei Pilea mierophytes l'odosarpus Poli. ? Cucumis satinus (176) the gilleden Phillodendrum organdum Macadamia ternifolia Cucubit 7. largemelia Epiprensum: peloperone gultata

Rongelas atoll marshall 10 becoming generally Feb. 7 - Rongelato V. The beach infrom in overgrown with thickets of Clerodendrum inerne front of the village is and seedling wements sand and small grevel 1-2 m. tall. fida fallas West of this is a rocky is scattered here and show except for one short There, with some patcher stretch of beach, as for of solid glandi of it as shore can be seen. on sandy soil. Mininda above the rocky platform cetrifolia is unusually is a storm beach, as There top of which abundant. The soil in the plantation are scattered scalvely busher in the edge is mostly darly of the annoatall sever. Home of the coconit plantation. also a few quettarda of it has a very bigh and Candanus. humus content. There are some Pisoning trees no birds seen while locally, and burned stumprand logs of gring ashore few threafter. Plane anchored about others. This occulrance rather supports the surg-200 yards from beach - within half an hour flies had gestion that the arms atold series my be found it The flies levined from the Jems sovies. there are a singularly no hand from found, persistent lat. but little time spent Clantation back of in looking for it! village has the trees East of the blantation rather widely spaces 4-6 m. tall, of mounds crowns nowhere trucking. The bases of thetrees are almost all burned. quettanda, and some The ground is generally Visonia (misced appearance grass-covered but is on photo).

1996 marshall Is. Feb. 8 - Rongelap Yalet 36495 "Cucurbita" maxima L. spentaneous around village The Carica perpaya to village 57 Crimum asiaticum bi planted around village 58 Portulara samoensis v. Poelle. on sandy wil in grassy opening in cornet plantation 59 olga growing on soil surface. in an enoded coral conglomerate shore. animal lots, Feb. 7. me large hermit crab found in plantation, a ghost wals from tot of said ridge along lagron (northernal) several Countries found esting fandamin fruit int lof of lagon beach. 5 - I granshopphere attracted to light 6 - ainto from ground. work from ground.

fly attracted by sweat (abundent

werd picked up on clothing

after going through break

"and very persistent)

Rongelsp atoll 31 marshall Is. 1956 30 (wonder of MROL sample Portulaca lutea Sol. ofrening in comment grove back of lagon beach. (woucher for nRDL sample # 107) Leftures refrens van ocplantionalist back of beach ridge in afiling in cornet plantation The comment trees are Feb. 9 - Kabelle Islet very yellow. In the Land flat back of lagon contractorent is rather with scattered Scarvola. love lising forest, quettarda, and Messerichmidia almost leafless, fushes 2-3 m. tall, with surrounded by open bare sand between with scrib front of themendant a conspicuous algal court merserschmidia ja scattered treft of Leptum and a few plants of Breshavin small Pisonia. Lida tetrandra (this with fallax common locally obling was gloss, leave, ground cover of a species frince flower) plante notably If Boerhavia, Feptums, in-getted by albugo. Trumfetta, locally Findristylis county of the distances and a very little l'ortulacatutes. this section obviously abundant plants of anothe for used to be the lagron side Whis with fromted dullshore, arthre is a brigh suffaced Unner lieves and sand ridge with a white flower - b. diffice, plante defressin behind it less inflicted bout some the wide sand flat after inflection apparent. with scattered tousles I phylanest hybride seenis now between it and the opening and We lagon. of mainly grassy, with many dead Luriana busher, no live one seen.

1956 Marshall Is. Rongelag atol 34 35. July 9 - Kabelle Islat afren sand flat with reattered bushes. Reptures repens van septentrionalis Fol. tupto, (worship for mal DL sample # 412) common Brenhavia tetrandra Font. prostrate leave fleshy, generally commen on island glossy above, flower pick. many plants infected with allings. (voucher for nROL sample 115). 49 albrigo platensis commonly infecting Breshama Tetrandra (23,009) causing transfer to be erect, with shortened internoles. 70 Boerhavis Sliffman van prostrate, leaves dull above, themen than in B. Tetrandra; flowers white, 71 Fleunga mederalis (Fort.) Grand. erect stems reddish, locally common blowers greenish. 72 Pisania grandis H.Br. strub & mitale, flowers green dominant tree (only this one seen flowering others refets so m. tall, almost leaflers at this season. (woucher for NRDL sample 116). July 9 - blight wer western part of hard to reef of Kongeley next islet west - deaevolg gent with scattered Visonia. Leveral coconuts Gegen Islid - seaward on lagrom side. third is Peroning frest, the One of islets on been and neeprest seems to be a serul no platform but much forest with a few instaled Seachwork. committees on layour side. another leervardislet Surrang (?) dead (actually lording method)

1966 Marshallate. 36 Kwajalein atolo has typical timescent Feb. 9 - Kwazalein Islet. Interviewed Chief shape but with two curious strips just to Lee, navy Chief in north and to lagonward. public works deft. who Three are possibly umants has charge of munary of platform but should and truck garden. be checked on a photo or He says that a little on ground. commercial fertilizer Eslets on east nech has been used but not south of Eniactols are much forthan some sand spits with evering sawdust and algae ramps, somewhat swept from catchinent vegetated, especially (nostor mussoum?) along lagon show mixed with it before Those just month of planting - Planting is (mgelaf). have considerely in raised beds (6 inches). platform exposed 4 a little commercial seaward. pertilizer before planting mulch of algae from Twagalein atoll from catchment better if plants Turn yellow. Firstilize beand break in nech a little when torrator west of Roi I slet has start flowering, mulch a small exposed with grass cuttings sand - bank well within when plants are " high lagon whorite it. (This in garden). The fourth break Inthe garden are has a considerable Citrully vulgaris system of triangular Passifling edulis or I shaped reep politices letture tornatoes quechini inside but not quite 20 persian melon, hovergolew melon regular as that inside turnip, radishes, wang bots, the good an Breh channel sweet potato i cucumber in your attle have remarkable patterns of reefs inside them, should be photographed.

1996 Marshall Is Kwajelein atole allinging atol 39 Feb. 10 - flying over canot, green mion, atoll - mited. a reef patch inside the parsley celary pumphing sweet com, cabbage, bass to the left bell pepper. lecward (west) need margin drops off very abrightly The principal problem to great depth. now is the abundance of son nort-knot nemalodes good surge channels (Actorden marioni: 1. lon south well margin The potants in the nursey opposite Life Islet. have been fertilized a mothwest corner of little with commercia rech has a great love pertilizer. of reef (a sand?) extending In addition to plants linto the lagon. antly north reef near listed in fell. 12-15 the following we observed: the middle, are a cruple of small strips of beaching anavearing excelsa(?) "bamboo ti" The elongate Is the way from lagoon Endyline noted on p. 13 to sea, and many small coral tree from australia rand organiel frame expressed Certiera sp. at lowtide along lagory promoca triloba (or purposes'! margin of reef especially onthe sand afron. Vetrala volubilis The inner northwest islet argyries ! ("small- flowers has inspienous beachiroly wordwire! along lagoon shoe, arosion Mentioned two innext pesto: ramp on outer shore. Philippine wood borer -The outerislet has him Philippine Mahogany an erosion range but no and bambos-beetle. consprenous beach with. copy has pop Held

1956 Marchall 1s. arlinging atol. 44 45 cordin - Pisonin frank is a greculiar brown loose granulas moterial in most places. there is no well developed Jemo goil Ithough a phrophate nother beach. Lone of the soils under the Mismin trees have aginely or two of new huma, but notherdown. of ardin leaves in buch that oaprophytic activity is eniminger such as to destroy a after the human. Feb. 10 - Sifo Islet 36 473 Pardames tectorius clumps of sterns 5 m. Tall, just back of lagron beach fruit from ground, no in send, now or islet. 74 allophylus timorensio (DE) Bt. - right over seen in trep -5 single chemp in frest in trees 7-4 m. tall, george white; full immature. center of islet. 75 Polypodium scolopendural shingomes creating on very local in serub surface of ground.

1956 marshell Is ailingines atol 46 34676 Pertulace luter sol. I wousher for NROL sample # 120 occasional in sandy openings. 77 tracusty series Valid flowers white. Dominant in saule and at total beach and to some extent intend. deptures regions van septentioned for var septentioneles Tosli. scattered tufts in sandy openings. 79 messenchmidia argentes (L.S.) Februt small trep 4 m. tall leaves very common tree on fleshy, flowers white. secret forest. fragrent. 30 Piconis grandis RDs. small treg tothers of Cy-deminant true in to 20-25 m. tall), sterils. forest with Cordia. (worker for nROL sample = 26) I quettarda speciosa L. small rounded tree 5 m. common in serul, south Tell, (Voucher for NIEDL sample = 130). frest and tall freit, 82 Trumfetta prominhen Forot. prostrate, flowers yellow & common open frest and fremings. 13. Terminalia samoenin Redy. shrub zon talf. mane in acrub 39 albugo platensis paranti on Boerhavia (36085). 85 Brechavis tetrandes Forst. f. (voucher for MROL semple in) common on sand flats (also on cobble boulde plats) 94 Polypous cumabación (First Junges collected on Ailinginae) on dead l'undance trunks

ailinginas atolo 1954 marshell)s. 48 49 flowers white, 3687 mounds citrifotis L common wound evenut groves, not seen alsowhere an risket. 39 Pigitaria pruvier var minobachre (wowher for MRDh sample 4/23) (Prof.) Fish. very local, in one small · opening on freed stems greenish yellow. Carrytha freifermes b. orcasional parasetic on quettarda. showth 1.5 m. tall: flowers yellow. stemme ned, fleshy of furiang mariting L. common locally is sent 9! Plennya mederalis / Forest gand estable common on welling ground under trees. 92 Tacca lemtopetalocites (1) 0.14 inflorencement of specimen commy in freet and from another plant with evenut groves. dead leaver. 93 Hornestling (schilt) 6. Don wining vine, climbing common in opening overtices, 97 Wedelig befring (h) DE tangled strongly recinon, common in openings and edges of freed. 77 Endia subcorblata hem. tree 10 m. Call, steril, with elong ate twisted, tangled co-dominant in frest with fisonis grandes. Thraceg involuta (Fout) Ras. ground ever dominant in patcher in ofren forest 97 Clerodendrum ineme (4) greets tangled showly (m. tell, common in amall openings in frech

Rongerib atil mushall is 50 51 Feli. 11 - Uniwetal Islex +abo 11 - Kwazacein atolf Rongeil atel. from air - Enewetale plet seems D have change This islet has an shape somewhat sing 1952. It has a short sand dut enormour sandridge along the lagorn beach. To the south now and to be weighty trianguler up & 3 m. hilgh at least, (check on recent and older in places. photos of possible) much of the central part of the islet is Byei Islet - The covered by Premis - Ending strip across islet is conflictely green our frest. The Cordin is blead at the tips, the nexthalinth is Visonia leafless and mostly covered by in flower. mixed finest, the mest one by tangled 17 inds seen were grute serul. a few gygis alba, Two anous Istolida, one fristle-thighed coulew In south neel are several islets thrat look and two tattlers. got a big black from any like france, gecko from the construction with more orlers completely crew working on section enelysed lagoratets. rebuilding the radio station- They have bull-dozed a wide strip the across the center of the islet where the radio station is being built, and here made a road the full length of the slewed side

Rongerils atre marshall & cragrostes amability is Construction of some the broast abundant set is going on at early and of the islet as well plant in the bare area. as in the middle. fut in mostly day The regetation in the On the seaward order sand iddy is a mised the everin range is sent forest, from very broad and flat, places. almost won alow to Pandanus is rare. base-level. Rubble The Cordin frost - with tractalit en it! scattered Pisonia - is Cilracion prools with about 8 m tel the rocks in them like tops bare of leave, pt-boles but sauce and terminal translet chapted, with send ber a few putting and silt in the bottom. out wealt sprout. are a common teatur The Rody frest has of this range. luning found on mules typically tangled beach but in moderate lower transles, ofen only where their are quantities (Bay 3/5). numbers of Prisonia, along the lagron no undergrowth shore is an allowert except a few Pisonis continuous series of sprouts and anoccasional black-rock some of it Groves tuba. There are quarried by lagron wave and thrown up many tiny Corolis in heaps in the beach acedlings locally, with at the west end is from 2-5 leaves, in a very thick series of large ones seenbeach-rollipping old this description from eastern half of islet). enland forming a culita. On the western france of Insufe their is a very bracket the islet the Cordis some you with several alpas. mos throughly dead

Emperil stole 57 1956 Marshalf Is 56 tel. 11 - Enivertale Islet clear orange loss throng 36693 fiels fallox Wall. nothing slope of lagoon beach ridge. Engratio amabeles (L) W. A. common in clearly prostrate leaves dull 3,4700 Boerhaving different ? van preen above white feneath; common in and around cleared strip, local conficuously infected elacioticano. by albugs, two ticker for nRDV sample ? Of Pisonia grandis RDA. tree 18 m. rale, flowers very common in frest green, fragrant. all trees locally dominant seen were in flower. when for MRDL sample " 131 or albugo platersis Tetrandy pardsitis on Brecharing is the there tetrandy and. tips of branches less 0) Codia subcordata lam. 3 daninait frest true seedlings orbundant V 03 Thursey involute (Forst.) R. +5 prostrate, formany frindle # 136) locally common, forming ground with under trees. fruiting heads globose 15 Pandamus tectorius Park. name in cordia forest Thatanger pucked from grand v of Loulameg amara Lays. small trees 1-4 m. tall. mall exteny in Priorie force golations larger. D7 (the green alga) Phormidian crostyamen Tillen det. in botton of trachish pool Eromish green

Rongerile atol 1950 meshell 30 59 enight green. 36702 (gran alga) on side of tractich prot Feb. 12 - Kwazalin alog Kwajolein Islet should up to 1 m. tall 09 Vites tripolish gran some leaves tripoliate on planted as ornamental some brishes, flower lavendey. Feb. 13 - Utinik atoll Utirile Islet there is practically no undelbrush in these When coronal land back plantations - some of village & northeast scattered Sity fallax tras scattered landamin and several thickets and ground-cover principles of cordin (mostly dead of Digitaria with some and covered by yours tragrostis, Carrytha tuba - probably from fire), Triumfetty, Leptures. Acaevola, quettarly, es. Fimbristylis, Taxas. young Trees shorts Many of the comment has 2- Idm. tall. knocked down by 1951 typhony have turned up at Some old tare-pits along the tips and are growing. trail back of village with coconuts at least of years the their are pretty well willed. old in bottoms. There has been much settiming in plantation along a trath to south of willage is planted east of village but hew what appears to be Crimum trees badly burned West baken. It has white flower, of village in enea has lobes longer than tubes, the treas welles spraintly rather crispate margins wyfire

uterile atoll 1796 markall Dr. 61 60 Curring tis much some bracks white, filament abundant tree than on purple, anthers commonly bent in middle fruit 1951 but by me means as much as on Rangeligh Jungell. but certainly distinct. actinging and Kongenty feedlings of Leverila, Leftunia and messer schmidis common arno atal soil profile along beach stown to from back of willage, water line humany in count plantation: seedlings back of 0-13" five powdery loan beach on send. with some coral gravel 74R-2/0 (Bag 316-1, along the west part of extra bag (for (anelysis) this worth breach it 12-18 fromly caked crumbly a high cuesta of evanny sand, mottled old thack with reaching gray about 10 YR-6/1 alreve bright ide level (bag 316-2) but swash of wars 18-48+ loose foraminifered running over too her sand 78R-8/4, with and there. The water loose fine gravel in from this runs along lower part. back of the cuesta, (bay 716-3, extra bag carrying sand with for (analysis) it till it escapes (bag 314-4 is gravelly through a breach in portion) beach och. Opposite this treach is a semialong south beach circular indentation in Luciana is abundant, beach, surrounding a pond growing in sand and HELLE & RELIEF gravel, very frew dead or partly dead plante sen

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Westward, beginning about even with the end of the country a great subble tract lies though of the cuesta, partially submerged at high tide, Westward this thins out and the rock platform shows at the surface in the outer 50 m of the spit. The cuesta has several more breaks here. On the other side of the shit, the slave ridge along the lagoon shore is broade, somewhat lower. more firmly held by Leptung and Cassytha with a wide growth of busher than in 951. Some of the larger of

these are ollad. Westernwest extreme of plantation in spit has trees with very small crowns no muts mostly with no flowers. Ten huslis on ground, segns of burning at base. On seawood side of Islet proper is a very rough erosin ramp with pot holls and abrasion channels. Capped with a very old larger of beach rock a sand beach behind this.

Utarile Islat. 1956 marchell Is. 65 64 Feb. 13 Utivile Islat corolla vernillen, crown orange. Usclepias curassavica L. planted around buildings and cometery flowers scarlet. planted around out building chang 17 Lepturus repens var. subulatas Fali. very common on outer beach flowers white, regment edges Crimin baken Engl. somewhat crisped; buds planted along path acuminate: lober longer Than tube, felaments purple. Centella asiatica (h.) unh. prostrate, rhezomes on several patches in surface of ground. coconut plantation. 15 Boerhavia diffusa L. common withy grands common or rocky ground in come prostrate. stems reddish, leaves dull; in commut plantation. flowers pink. 16 Bougainvilles spectabilis shrub, bload tracts depred houses planted around 17 Euphorbia hista L several plants seen neur landing. Digitaria pruviens van mierotachne abundant component of ground cover in cornect plantation 19 depturus repens van subulation Fort. abundant is ground con in execut plantation. to Bruguiera enjugata (1.) Merr.
onther in pool in bornt crate, tree 5 m. tall, flowers ned. "jong"; "fruit used for glue".

units atolf 1367 2) Pseuderanthemum carnithuris
ras etropuspersum (900) Fol.
planted as manuental 1956 Marshall Is. show 3 m. tall, sterile Feb. 14 - Libies Eslet

136722 Hedystis biflora (1) Lam. common in open coconut plantation. This specimen is from near seaward side.

23 Crimum latifolium van zenglanieum (L) Hook finer planted in yand.

24 Pepersonia obtusifolia (L.) A. Diet.

s 25 Rhoes Statestor (1'Her.) Home sportaneous, spreading vigorously.

26 Cynodon daetyln (1) Pers. in lawn around church

a healthy plant of agave sisalana growing at DeBrum house.

Barleria cristata growing in pot, white-flowered from, not very healthy.

Cinds very mare
one gygisalla, I amour stolida, on anous terminostiis seen on seaward side.

27 Hypheastrum puniceum commenty planted, flowering very well.

prostrate; chlorotie.

peduncle 0.7 motall, slightly compressed; flowers white white with purple stripes. erect; leaver fleshy

leaves purple beneath; flowers quink; juice said to be initating.

prostrate to ascending, storile.

asked Capelle DeBrun

if any laone commit diseas
known here. He did not know

it as such. Mentioned a

place where consmit trees

looked very poor. People

built a house among them

and lived there for a time.

The trees tended to find up

after people had lived there

for a while.

peduncle hollow; flowering with or without leaves; corolla pale memillion, strongly zygomorphic

Rongelap atoll 1996 Marshall Is. 70 Feb. 15 - gigen Islet bas sand with a grapheness algal court. Beach rock extends along The guettanda on these almost entire lagron ridges is in very from beach. the east end of condition, alead at tips this beach is prolonged " The soil on these ridges somewhat into a sand love, is Alrioya. Intert hole from which a sandy dug the surface layer beauty extends about is somewhat darkened Thislet. From about and underlain by a thistory back extending piner unaltered layer. about 20" down is an to extremity of islet and inequal comentation they side is a remarkable (bag 318), not very frim. of similar material series of beach with the to the prints layer. dil of which is lagoonward along the east street and the strike perpendicular a dense traevola semb to the beach. In places, with the interior second especially at the tip of the and serub frest approaching islet, the tedding is close to the edge here and there somewhat confused. The interior well back Back of the lagron of the beach ridges is a beach and parallel with devarfed Pironia - quettarda it are two broad beach mixture with some Cordia ridges of sand and It is in most places somewhat small gravel. These open, and has a ground have scattered vegetation. cover of Boerhaving diffusa mostly shrubby, of seawood with some Leptures. a little quettarda, a little Tacca, Cassytha, achyranthes Messerschmidia. Boerhavia and thomoea tuba are to be seen. the open places B. Liffwag totals There are a few scattered cosmuttrees, especially toward very rare, tiny triples of The lagoon beach, and a very Septimus refrens, much

Rongelap atoll 1996 Marshall Is. 73 72 distance. The Cording is few Pandanus. mostlag dead of almost at this season the Risonia so. The grettarda in is nearly keapless but the forest is largely dead flowering. I very severely dying the soil is mostly back from the tipe . Where Shiring but with some in the open it looks very wealth, developed lamo much damaged - deal under Pisonia but with from the tips. no hardfran. The deptume, common The enterest fracily generally back Between the reasonably of the beach ridge, is well developed forest and entirely dead except the open scrub of the for a few tiny seedling beach ridges is a belt tufts on the beach ridges. of nather when serve Lymewormut trees are dead. with Againsta quetterda Ling This islet was and Cording. In the opening most strongly showered by are Portulaca luterand fall-out in march 1954, there Leftunes. may be some connection. the interesting feature gyzis alba abundant of this regetation is its and golden plover seen. current condition. The Omobristle thigher curlent Leaevola and messer sery on east shore - very tame, schmidia are the only Pumice common but not common wordy plants abundant (bag 300). that seem to be in Jemosoil profile under Pisonio: really normal condition 0-3 raw humis, 104 R-7/1-7/2 (64919-1 the Visonia is mostly 3-14 dark grey (10 YR - 7/2) self and leafters, as would be pepper colored fine sand with expected in the dry season abundant corel gravel (bag 319-2) in this climatic belt, forery (hole not dung deeper) it has elumps of dans green leaves that almost resemble mistletoe from a

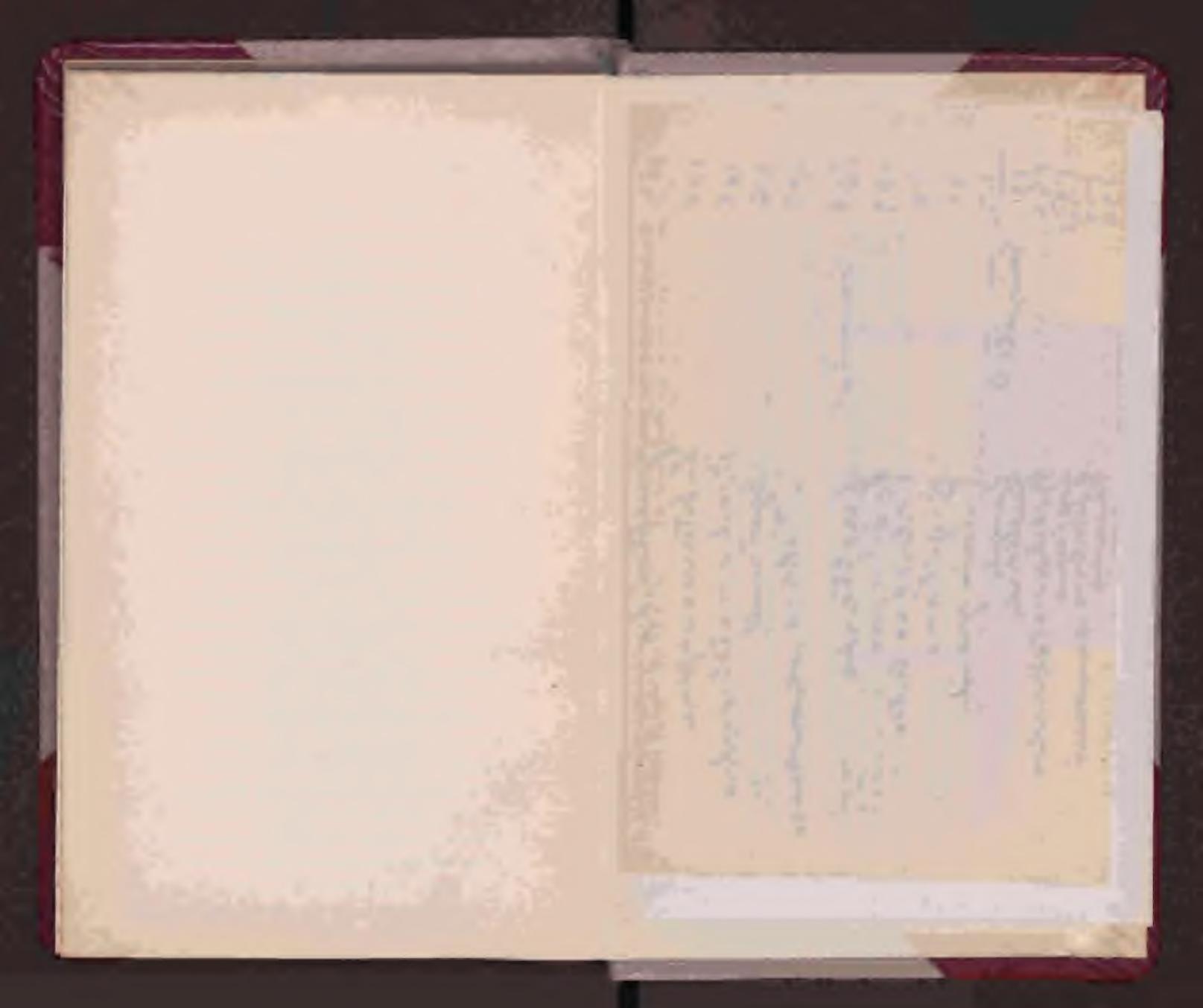
Breeker tetrante 1777 (Hinch 76 11954 marchall Is 138 1,7 7 Evenobita perlata ailingina atolo, Lipha Irlet, Fefeterus 139 Vintulaconomic 140 interior. Feb. 10 Pisoria 141 Kongerile atolf, Commetale Estel Febru !! quittanda 142 9 inserts attracted to light 310 an village (ant, in ground Bockermality 1113 (11 en lightly lovers, but light. I while atol utant subs 144 Thomas Life 9 127 Digitaria 12 Insects from Promis trunk Life Islet alingine atol 1 posses such 25 Thursday 176 Pismia (mosquitolarrae in water Boehavia 127 in coively in trunk) Portulace dutes 128 Carasshopper on trunks probably Lepture repen 129 merely accidentally) quettanela 130 3 crh wearing refinder tilingmaratol, fils list quettarda Ribiely 145 Lepturus 14 2 better and long-horned 146 grassligger - ailingingstil. Pixonia 147 11 15. Coensbita Rongelap attl. gigen Islet Feb. 15 Boerhavia tetenda 148 Digitaria 149 Thuring 150 16 bylocopa Pertulaes samoinais 151 stung a man on tarajulais quetlanda 152 gegen Breeliavia diffues atel twagalin ster Fellollo. 157 Pironia 154 Boerhavin tetrandy in carity in old nautilies shell on 159 Portulain enter gency allinging abl dife. Feb. 10-186 Capturus 157

Jaka - mounts is 80 Feb. 19 - Waithite Beach, +molula 76738 Pacceleranthemum countherine showh as mital esaves with yellow wein 1 aurenseliculata netwher; flower white filanted as unemental with polluster of project date in center religion to crolle lober partly grand. Tele 24 - Fleglit for Lear Francisco Southward ausse withern landsague Valley, Atta antelope Valley, Wojave Verest Weedles Winslow arig, alfreguergue amarells, to Turks a Julia

Trace of snow on tops of even low prelis in central on those in Ventura Co

In Mozave Desert one I desert mountain ranges gave a clue to the history 4 to and former topography of the typical charpers rugged irolated desert runger. I has the common sheletonized from but with remnants of or gently arched plateous on top ridges Indicates that there large may be evaimment of gently rounded bull-like mountains a mountain masser.

and on all moruntain and and new theries. In some



Fosbergs insects from the Marshall Islands, February 1956.

- 1. Ants, collected in Guest house, Kwajalein Islat, Kwajalein Atoll. (attracted by liqueur left in glasses.)
- 2. "Brown widow" spider, found in house of Codr. White, who says it is fairly common, but no bites reported recently. Kwajalein Islet, Kwajalein Atoll.
- 5. Long horned grasshopper nymph, found in bouquet of flowers on table, Likiep Islet, Likiep Atoll.
- (4. crabs from Rongelap I., Rongelap Atoll).
- 5. Two grasshoppers attracted to lights, Rongelap Islat, Rongelap Atoll.
- 6. Ants and reach from ground, fly attracted by sweat, weevil picked up on clothing while going through brush, Rongelap Islat, Rongelap Estan Atoll.
- (7. hermit crab from Ailinginas Atoll)
- (S. Gecke, Eniaetok I., Rongerik Atoll).
- 9, 10, 11. Insects attracted to light in house in village, Uterik Islat,
 Uterik Atoll (ants on ground in house, seemingly indifferent to light).
- 12. Insects associated with Pisonia tree trunk (mosquito larvae in water in hole in trunk, grasshopper not especially associated with anything), Sife Islet, Ailinginus Atell.
- 13. Spider, Sife Islet, Ailinginae Atoll.
- 14. Two beetles and adult grasshypper, Sife Islet, Ailinginas Atoll.
- 45. Hermit orab, top of beach, Gigen Islet, Rongelay Atoll.)
- 16. Kylocopa which stung a man on Kwajalein Islet, Kwajalein Atoll.

The numbers for crabs, geckes, etc., in () merely included to make the series complete, but are being taken to Washington. Sometimes two numbers are in same bottle, but I think from notes it will be easy to associate numbers with proper insects.

Kabell Lefterm refres 114 Quettonda Trechariatetranda Prising grander 016 algal court feat housen 10 Made soil borryon 127 spel coral sand honeyon 12 Rongelap J. Rigilaria Thurses amortila Pesonia quettanda Laptures repens 104 Brechavia Tetrandia 105 algal crust 106 Ditulaca samoencis 107 Emealoh 108 quettarda 10.9 Gefternes Vortulaca lutes 10 Nightang Enivelale



